**BÁO CÁO:**

**Thời gian Eecrytion trên window:**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Modes | ECB | CBC | OFB | CFB | CTR | XTS | CCM | GCM |
| 20KB | 0.017 | 0.022 | 0.012 | 0.0172 | 0.019 | 0.039 | 0.058 | 0.011 |
| 50KB | 0.042 | 0.075 | 0.086 | 0.063 | 0.043 | 0.0892 | 0.132 | 0.064 |
| 100KB | 0.082 | 0.193 | 0.089 | 0.126 | 0.1823 | 0.195 | 0.226 | 0.1 |
| 500KB | 0.296 | 0.655 | 0.562 | 0.6225 | 0.595 | 0.727 | 1.899 | 0.5212 |
| 1MB | 0.612 | 1.32 | 1.42 | 2.768 | 1.509 | 2.667 | 3.625 | 7.115 |
| 2MB | 1.062 | 2.697 | 2.620 | 5.236 | 2.421 | 4.15 | 0.832 | 1.662 |

**Thời gian Decrytion trên window:**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Modes | ECB | CBC | OFB | CFB | CTR | XTS | CCM | GCM |
| 20KB | 0.009 | 0.032 | 0.021 | 0.017 | 0.0152 | 0.021 | 0.047 | 0.023 |
| 50KB | 0.032 | 0.0632 | 0.074 | 0.0633 | 0.089 | 0.044 | 0.167 | 0.0523 |
| 100KB | 0.12 | 0.124 | 0.052 | 0.126 | 0.141 | 0.112 | 0.221 | 0.077 |
| 500KB | 0.183 | 0.427 | 0.4122 | 0.625 | 0.362 | 0.421 | 1.6235 | 0.621 |
| 1MB | 0.4692 | 0.826 | 1.15 | 2.768 | 1.012 | 1.886 | 2.95 | 6.806 |
| 2MB | 0.802 | 1.882 | 1.692 | 5.236 | 2.92 | 3.922 | 1.01 | 1.772 |

**Nhận xét:**

**Từ 2 bảng trên ta nhận xét rằng thời gian cần để Encrytion phần lớn sẽ lớn hơn thời gian cần để Decrytion**